

ABSTRACT OF THE DISCLOSURE

A communication channel selecting circuit corresponding to radio signal intensity, which can select and uses a channel which does not disturb or interfere with the other radio apparatus, avoiding the channel occupied by other similar radio apparatus nearby, is provided. A communication channel selecting circuit which selects a communication channel in accordance with radio signal intensity, the selecting circuit transmitting and receiving radio signals in a plurality of channels, provides a radio unit 102 outputting a signal RSSI indicating radio signal intensity of a radio signal received through an antenna 101 in a receiving status and transmitting a radio signal to the antenna 101 in a transmission status; a control circuit 221 which sets the radio unit 102 to the receiving status even at a transmission timing. The communication channel selecting circuit further comprises a timing control circuit 221 which outputs a timing signal from LT21 to LT24 for each of the plurality of channels at the transmission timing, a register from 211 to 214 which stores a signal level outputted from the radio unit in the receiving status corresponding to the timing signal from LT21 to LT24 and a transmission-receiving control circuit 242 which compares the signal level stored in the register from 211 to 214 and selects one of the plurality of channels to transmit/receive.

*Compares at receiving status*